

What Is Claimed Is:

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent is:

- Sub  
a1
1. A white point adjusting method for adjusting an achromatic color level to be displayed on a liquid crystal module for an input video signal including a plurality of color signals, comprising:
    - a first step of setting a white point by deciding an offset quantity of at least one color signal from a highest gray level for each color temperature;
    - a second step of setting an offset quantity of the color signal in a direction of converging a halftone white point for each color temperature set in the first step; and
    - a third step of adjusting chromaticity on a screen of the liquid crystal module by adding the offset quantity decided in the first step and the offset quantity set in the second step to the input video signal.
  2. The white point adjusting method according to claim 1, wherein said input video signal is composed of R, G and B color signals, the white point setting in the first step is executed by using a prescribed color temperature as a default value, and luminance of the R and G color signals is reduced when a color temperature is set to a high temperature side with respect to the prescribed color temperature.
  3. The white point adjusting method according to claim 2, the method further comprising:
    - a step of adjusting luminance of the entire input

1 video signal after a white point is set in the first  
step.

1 4. The white point adjusting method according to claim 1,  
2 wherein said offset quantity set in the second step is  
3 calculated with accuracy of bits larger in number than  
4 bits of the input video signal.

1 5. A color image processing method for supplying an  
2 entered video gray level signal to a display panel for  
3 outputting a color image, comprising the steps of:  
4 setting an achromatic color of a particular gray  
5 level at a specified color temperature on the basis of a  
6 set transformation quantity;

7 setting an adjusting value for converging a halftone  
8 achromatic color different from the achromatic color of  
9 the particular gray level toward the specified color  
10 temperature; and

11 adding the set adjusting value to the video gray  
12 level signal, and then supplying the signal to the  
13 display panel.

1 6. The color image processing method according to claim  
2 5,

3 the method further comprising:

4 a step of correcting deterioration of luminance in  
5 the display panel following the setting of a highest gray  
6 level achromatic color.

1 7. The color image processing method according to claim  
2 5, wherein the step of setting the adjusting value is  
3 provided independently of a contrast adjustment executed





lsg:ibm\105\13782\spec\13782.ewg

- 1 15. The liquid crystal display device according to claim  
2 14, wherein said adjusting means changes the offset  
3 quantity on the basis of a reference voltage applied  
4 following the contrast adjustment executed by the driver.

[illegible]